

## Wyandotte County

### Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

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Using the most recent IMPLAN data available (2014) adjusted for 2016, 33 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Wyandotte County economy.<sup>1</sup>

These 33 sectors have a total direct output of approximately **\$1.2 billion** and support **3,246.9 jobs** in Wyandotte County. Running the model for all 33 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Wyandotte County Economy						
Impact Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>	Output % of Gross Regional Product
Direct Effect	3,246.9	3.09%	\$256,462,309.29	2.68%	\$1,213,154,664.63	12.67%
Indirect Effect	1,279.8	1.22%	\$132,636,119.98	1.39%	\$244,269,349.10	2.55%
Induced Effect	667.3	0.63%	\$55,064,840.32	0.58%	\$93,940,418.68	0.98%
<b>Total Effect</b>	<b>5,194.0</b>	<b>4.94%</b>	<b>\$444,163,269.59</b>	<b>4.64%</b>	<b>\$1,551,364,432.40</b>	<b>16.21%</b>

As shown in the above table, agriculture, food, and food processing sectors support **5,194 jobs**, or **4.94%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$1.6 billion**, roughly **16.21% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 33 agriculture, food, and food processing sectors is approximately **\$444.2 million**, or **4.64% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **4.64% of the total economy**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting:

[http://www.implan.com/index.php?option=com\\_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70](http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70)

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

<sup>3</sup> Value added = labor income + indirect business taxes + other property type income.

<sup>4</sup> GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

<sup>5</sup> Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **817.5 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Wyandotte County.

Top Ten Sectors by Employment		
Sector	Total Employment	Total Output
Meat processed from carcasses	817.5	\$404,429,330.42
Landscape and horticultural services	757.4	\$45,238,112.39
Bread and bakery product, except frozen, manufacturing	410.5	\$57,901,898.91
Wholesale trade	332.0	\$78,129,091.13
Cookie and cracker manufacturing	302.8	\$103,393,146.16
Truck transportation	230.1	\$41,123,678.27
Rendering and meat byproduct processing	127.7	\$75,740,381.04
All other food manufacturing	89.4	\$30,721,570.56
Management of companies and enterprises	88.1	\$19,626,411.56
Bottled and canned soft drinks & water	86.3	\$68,128,306.18

The meat processed from carcasses sector directly contributes approximately **\$404.4 million** to the Wyandotte County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Sectors by Output		
Sector	Total Employment	Total Output
Meat processed from carcasses	817.5	\$404,429,330.42
Other animal food manufacturing	84.6	\$119,099,532.70
Cookie and cracker manufacturing	302.8	\$103,393,146.16
Wholesale trade	332.0	\$78,129,091.13
Rendering and meat byproduct processing	127.7	\$75,740,381.04
Bottled and canned soft drinks & water	86.3	\$68,128,306.18
Pesticide and other agricultural chemical manufacturing	39.1	\$66,769,948.92
Bread and bakery product, except frozen, manufacturing	410.5	\$57,901,898.91
Flour milling	33.8	\$53,303,320.68
Dog and cat food manufacturing	38.1	\$47,917,594.76

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Wyandotte County economy.

<b>All Agriculture, Food, and Food Processing Sectors</b>		
<b>Sector</b>	<b>Total Employment</b>	<b>Total Output</b>
Oilseed farming	3.8	\$1,217,301.41
Grain farming	7.6	\$789,307.44
Vegetable and melon farming	1.2	\$240,278.76
Fruit farming	1.1	\$118,714.11
Tree nut farming	0.0	\$208.37
Greenhouse, nursery, and floriculture production	7.9	\$1,791,060.99
All other crop farming	7.0	\$153,819.72
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	63.2	\$1,877,224.08
Poultry and egg production	0.4	\$188,283.25
Animal production, except cattle and poultry and eggs	59.7	\$2,099,618.43
Dog and cat food manufacturing	38.1	\$47,917,594.76
Other animal food manufacturing	84.6	\$119,099,532.70
Flour milling	33.8	\$53,303,320.68
Frozen fruits, juices and vegetables manufacturing	36.1	\$17,966,044.38
Canned fruits and vegetables manufacturing	53.8	\$28,228,882.17
Meat processed from carcasses	817.5	\$404,429,330.42
Rendering and meat byproduct processing	127.7	\$75,740,381.04
Bread and bakery product, except frozen, manufacturing	410.5	\$57,901,898.91
Frozen cakes and other pastries manufacturing	4.3	\$648,102.61
Cookie and cracker manufacturing	302.8	\$103,393,146.16
Tortilla manufacturing	4.9	\$924,155.02
All other food manufacturing	89.4	\$30,721,570.56
Bottled and canned soft drinks & water	86.3	\$68,128,306.18
Wineries	9.2	\$2,023,661.69
Sawmills	14.1	\$3,692,627.47
Paper mills	2.7	\$2,163,238.14

Nitrogenous fertilizer manufacturing	12.7	\$25,170,186.26
Pesticide and other agricultural chemical manufacturing	39.1	\$66,769,948.92
Farm machinery and equipment manufacturing	38.2	\$22,047,246.07
Food product machinery manufacturing	56.3	\$17,048,748.97
All other industrial machinery manufacturing	28.7	\$7,665,646.13
Veterinary services	47.0	\$4,457,166.45
Landscape and horticultural services	757.4	\$45,238,112.39

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Wyandotte County, the retail sector was omitted.